M. A. R. 57 (Rule 116) **No. D**

Measurement Book

169313

Serial No. ...I^st & Final Bill

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... The Technical manager, KRIDL

Date of commencement of work..... 24-02-2018

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Name of the work:	Providing drinking water facilities in Bahubalinagara and Surrounding areas in Ward No: 16 Jalahalli.				
		1) EE/RRND/No.No/87/2017-18 Dated: 24/2/18				
		2) Job No :- 016-17-000036				
		3) CE/RRN2/TS/490/2017-18 Dated: 20-02-2018				
		4) EE/RRND/AS/134/2017-18 Dated: 20-02-2018				

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
①	Earthwork in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) Qty as per this I.P.C = 2310.00 @ 258.85						Rs. 597944.00
②	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width in hard soil. Qty as per this I.P.C = 987.53 @ 332.98						Rs. 328828.00

M. A. R. 57 (Rule 116) No. D

Measurement Book

169314

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
③	Cutting of road surface for pipeline trenches and disposal of excavated stuff as directed including barricading danger lighting etc.) Qty as per this I.P.C = 62.37 @ 714.20						Rs. 44545.00
④	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed Qty as per this I.P.C = 145.53 @ 400.04						Rs. 58218.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(5) Providing and fixing Chorinated poly vanyl chloride Pipes Conformig to IS 15778 having thermal stability for hot and cold water supply including all CPVC						
		Qty as per this I.P.C				4620.00	
						@ 529.47	RS. 2446151.00
	(6) Providing and fixing gun metal wheel valve conformig to IS Specificatron of approved make as per direction &						
		Qty as per this I.P.C =				30.00	
						@ 1694.30	RS. 50829.00

M. A. R. 57 (Rule 116) No. D

Measurement Book

169315

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(7) Providing and fixing Chorinated poly vanyl chloride(CPVC) Pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass						
		Qty as per this I.P.C =				1212.75	
						@ 252.97	RS. 306789.00
	(8) Providing and constructing burnt brick masonry for basement and superstructure with approved quality						
		Qty as per this I.P.C =				3.75	
						@ 12191.93	RS 45476.00

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MEASUREMENT BOOK

Date	Full description. etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(9)	Providing and fixing in position brass bib cock of approved quality 25 mm nominal bore including cost of all materials, labour and Hire of equipment						
		Qty as per this I.P.C =				57750	
		@ 252.97					RS. 146090.00
(10)	Refilling available earth around pipelines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m.						
		Qty as per this I.P.C =				693.00	
		@ 89.42					RS. 61968.00

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Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

169316

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11)	Cost of Haulage Excluding loading and Unloading						
		Qty as per this I.P.C =				2803.77	
		@ 111.00					RS. 311218.00
(12)	Geophysical investigation of site for sinking above bore well for supply drinking water to the habitation either through the hand pump. MWS or PWSS by vertical electrical sounding by adopting Wenner						
		Qty as per this I.P.C =				3.00	
		@ 1882.00					RS 5646.00

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Sinking of borewell of 165 dia clean cosing 5 oper fast hydraulic rig of capacity 250 PSI & 900 CMF and above in all strata including over burden upto 20m a) 0.00 to 50.00 mtrs Qty as per this I.P.C:					150.00	
						@306.00	RS 45900.00
(14)	50 to 100.00 mtrs Qty as per this I.P.C:					150.00	60,000.00
						@400.00	RS 66750.00
(15)	100.00 to 150.00 mtrs Qty as per this I.P.C =					150.00	66750.00
						@445.00	RS 70500.00

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Measurement Book

Serial No. .....

169317

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(16)	150.00 to 200.00 mtrs Qty as per this I.P.C =					150.00	
						@470.00	RS. 70500.00
(17)	200.00 to 250.00 mtrs Qty as per this I.P.C =					150.00	
						@544.00	RS. 81600.00
(18)	250.00 to 300.00 mtrs Qty as per this I.P.C =					150.00	
						@622.00	RS. 93300.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	300.00 to 366.00 mtrs						
		Qty as per this I.P.C.=				198.00 @ 658.00	Rs. 130284.00
(20)	Supply of ISI mark 175mm nominal bore, plain end steel casing pipe grade of steel fee 410 of wall thickness 5.4 mm thick conformity to IS4270: 2001 and						
		Qty as per this I.P.C.=				75.00 @ 1325.00	Rs. 99375.00
(21)	PVC Pipe 10Kg/Sq m 250mm outer dia						
		Qty as per this I.P.C.=				36.00 @ 2600.00	Rs. 93600.00

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Measurement Book

169318

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(23)	Supply of 175mm MS cap						
		Qty as per this I.P.C.=				3.00 @ 100.00	Rs. 300.00
(24)	Supply of 175 mm MS collar.						
		Qty as per this I.P.C.=				12.00 @ 150.00	Rs. 1800.00
(25)	Supply and Deliver at site brand new CRI/Texmo/ Atland/ Luby/ Sogunn						
		Qty as per this I.P.C.=				3.00 @ 70600.00	Rs. 211800.00

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(26)	Providing and fixing to wall, ceiling and floor galvanised mild steel tube 50mm dia nominal bore with Attings						
	Qty as per this I.P.C =					810·00	
						@ 432·00	RS. 349720·00
Cable Pump 27 DS	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electro-lytic grade copper conductor.						
	Qty as per this I.P.C =					1758·00	
						@ 163·50	RS. 287433·00
(28)	Erection of pumpset including aligning and balancing with all necessary erection materials and labour						

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Measurement Book

169319

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including supply and erection of one pair of supporting dams						
	Qty as per this I.P.C =					3·00	
						@ 3000·00	RS. 9000·00
(29)	Supplying and fixing 50mm heavy gauge duty GI						
	Qty as per this I.P.C =					135·00	
						@ 103·00	RS. 13905·00
(30)	Providing and fixing in position 50mm nominal bore non-return valve @ as per this						
	I.P.C =					3·00	
						@ 1496·00	RS. 4488·00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(31)	Supplying and fixing 50 mm GI union. Qty as per this I.P.C					6.00 @ 223.70	Rs. 1342.00
(32)	Supplying and fully automatic star delta unit push button type with suitable wire, 3 contactor one adjustable thermal. Qty as per this I.P.C					3.00 @ 8273.00	Rs. 24819.00
(33)	Erection of single phase preventor ammeter with including fixing selector switch / current operated earth Qty as per this I.P.C					3.00 @ 157.00	Rs. 471.00

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Measurement Book

169320

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(34)	Fabricating, supplying and mounting 1200x900x350 mm MS box made out of 18 SWG suitable for floor/wall mounting, fully weather. Qty as per this I.P.C =					3.00 @ 7866.00	Rs. 23598.00
(35)	Supplying and fixing miniature circuit breakers isolators on existing MCB distribution boards complete Qty as per this I.P.C =					3.00 @ 677.00	Rs. 2031.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(36)	Supplying and roung grounding connection material required	of GI copper strip or using necessary fixing					
		Qty as per this IPC=				3.00 @ 784.00	RS 2352.00
(37)	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden/pannel using necessary nuts	Qty as per this IPC=				9.00 @ 120.00	RS. 1080.00
(38)	Providing and fixing in position brass gate valve with C.I wheel of	approved quality (screwed end)					
		Qty as per this IPC=				3.00 @ 2052.00	RS. 6156.00

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Measurement Book

169321

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(39)	Supplying and laying of L.T.U.G cable having alluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with						
		Qty as per this I.P.C=				36.00 @ 140.40	RS. 5054.00
(40)	Labour charges for laying of 1.1 KV class UG cable 65 sqmm to 165 sqmm						
		Qty as per this I.P.C=				36.00 @ 10.80	RS. 389.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(41)	Digging of trench of 0.6m deep x 0.5mtrs wide refilling the trench to the required ground level and consolidating in Hard Soil etc.)						
		Qty as per this I.P.C=				60.00 @ 78.00	RS. 4680.00
(42)	Supplying and fixing class-A - GI Pipe wall thickness not less than 3.25mm on pole/wall						
		Qty as per this I.P.C=				30.00 @ 585.00	RS. 17550.00
(43)	Supplying and fixing Suitable for 11 KV class	LT cast iron Dot heads UG cable					
		Qty as Per this IPC=				3.00 @ 280.00	RS. 840.00

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Measurement Book

169322

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(44)	Earthwork excavation for foundation of building columns water supply, sanitary lines and electrical conduits either in pits						
		Qty as per this I.P.C=				47.25 @ 305.64	RS. 14441.00
(45)	Providing and installing at site work PVC including cost of pipe and specials and labour including lowering into trenches						
		Qty as per this I.P.C=				105.00 @ 112.00	RS. 11760.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Co...	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(40) Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming						
	1. ... Qty as per this J.P.C					11.03 @ 80.56	RS. 889.00
						Total Amount =	6141109.00
						11% KRIDL charges	675521.00
							6816630.00
	Certificate:-						
	1) The above work has been completed satisfactorily						
	2) There is no departmental issue/claim to the contractor.						

Asst. Engineer
L, BBMP, RR Nagara

Executive Engineer
BBMP, RR Nagara
Bangalore

3/5/19

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